

Elementary quanta of the gravitational field are quanta of space and time.

<https://www.youtube.com/watch?v=3aBZNxGKcT4>

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Quote: In this sense, those quanta exist of course on the Planck scale as part of a boiling vacuum. So, elementary quanta of the gravitational field are some kind of quantum grains, wave packets, which together compose the variable fabric of 3+3 dimensions of cp, with which Einstein continuously reinterpreted Newtonian space and time. In other words, Einstein's continuous gravitational field, which generalizes Newtonian space and time, emerges here on Planck scales as a continuous limit of those granules, wave packets-geons, these grains from time and space. It is these grains - balls of space-time and their mutual interactions that determine the vastness of space and the duration of time in the basic lattice, in which curved continuous states "float".

Dear reader, don't you like the paragraph above? It is just a slightly edited, re-poemed **speech** of **Carlos Rovelli** by poet **Jiří Podolský**, who with pathos in his voice exults over the "new modern explanation" of the universe from Carlos Rovelli's pen... and that through time and space, and that **this** are the "elements" that are realized and by which "everything" is realized through mathematical formalism. That paragraph, the **yellow paragraph** of Podolský is here: https://www.youtube.com/watch?v=yI3_hoVK6U0&t=2709s → At the time of **42:00h to 44:00h**... , he managed to say all that in 2 minutes. All I needed was a little more editing of his text and there would be purebred HDV.

Podolský is amazed by Rovelli's explanation of how *he can model (my) HDV* when using "modern physical language", "selected concepts, selected words", new physical terminology ..., and then it sounds like this → ... **at 44:15h** : →

"... and now how it works technically: (there is a picture-graph on the board) States (3+3D configurations) spatial proximity, spatial networks (3+3D spacetime), there are the vertices and edges and they represent as if the grains (dimensions of time and lengths), quanta, (the graph is just a visualization) each vertex on that drawing represents one granule = geon - balls; the edges represent their connections (wavelets of dimensions intertwine, penetrate each other)

⇓ These are the relations he is talking about here. These are the spin networks (of curved, rolled-up, packed dimensions 3+3D space-time), and their states represent the state of that field (and matter is just a "by-product of the principle of dimensional curvature)...the networks are then transformed "in time" (I must not use this word), into complex conglomerates of "wrapped" dimensions which in this state and character manifest and dynamically realize themselves as matter), the network (of 3+3D dimensions of the cp) has some shape, some topology (elements of matter "float" in its surrounding curved space-time) and so on, and it develops by jumping into some other formation, into some other network, another graph (boiling dimensions develop into complex matter, which interacts "with itself", i.e. in changes in the shape of those curvatures) ...so those transformations represent the variability of the world... [Podolsky did not say a word "where does matter come from" and how it is wedged into the event-creating nature of itself in an hour of lecture space-time, a network of dimensions and the proliferation of states], into a network (a network of

dimensions 3+3) they transform and transform one into another by discrete jumps, [and Podolsky does not say a word about matter, because matter is only a "product" of the curvature of the np dimensions], which the loop theory describes using spin foam (and this is itself a state of matter in which and from which "frozen" wave packets are born, clones of shapes, which then assemble elementary matter particles)... The universe is two-quantity, everything in it is made of two quantities and their dimensions.

The universe does not work according to physicists and their mathematics. But on the contrary!... the mathematics of physicists only works after "copying" how the universe works. The universe has been working without mathematics for billions of years. "It" does not need it to exist and function (!) So: The meaning and essence of the universe, and the truthfulness of the description of the universe, can therefore - logically - be expressed in other ways than mathematics. From this point of view, it is cowardice and hypocrisy of physicists that they have not dealt with them and do not deal with them for the entire 40 years of HDV's models. And HDV is condemned only because the author does not have the mathematical apparatus, **without which the Universe can exist**, (but physicists do not), that only the author did not find the mathematical apparatus due to personal ignorance. The entire lecture by J. Podolsky is only a modification of HDV.

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Quotes from the physics literature : ... gravitational acceleration is equivalent to force acceleration... based on the quantum behavior of the atom, a gravitational field can be detected, and thus the curvature of time and space. ... gravitational field is a manifestation of **curvature of spacetime** ... The equivalence principle states: gravitational force is locally indistinguishable from acceleration, i.e. from an accelerating moving system... curved spacetime forms an arena in which, willy-nilly, any other fields move, and which, through their gravitational action, co-create this arena... etc.

Yes, yes, yes, yes, but there is one catch: not even (my) failed expressions and verbal formulations can erase and annul and destroy my truth with the hypothesis of a two-quantity universe, where **the principle of the structure of matter in the universe is curvature of spacetime dimensions**.Bad luck 😊, Mr. Krinda, ...bad luck, bad luck, Mr. Krinda, of course on your side.

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https://www.scienceworld.cz/neziva-priroda/tri-zamysleni-nad-gravitaci-3733/?switch_theme=mobile

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